VisionDTV PCI-Ter

User's Manual Ver2.4

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CHAPTER 1

VisionDTV PCI-Ter Introduction

This chapter provides you a brief introduction about the package, hardware, and software of VisionDTV. And also includes something you need to know before you start to set the whole system up.

Sections include：

- Introduction
- Package Content
- System Requirements
- Features
- Specifications

Chapter 1 VisionDTV PCI-Ter Introduction

1.1 Introduction

VisionDTV PCI-Ter Card allows you to watch digital TV & Radio programs via a PCI interface Card. With VisionDTV PCI-Ter Card, users are able to watch, record & play back high quality digital TV program on their PC Monitors. Today, a vast array of entertainment media is not only found on TV set top boxes, but also available on your home PC.

1.2 Package Content

- VisionDTV PCI-Ter board
- Infrared remote control with AAA batteries
- Infrared remote control receiver
- Quick installation guide
- Driver CD (Multi-language Software and User's Manual)

1.3 System requirements

- IBM or IBM compatible computer
- OS: Windows 98SE/ME/2000/XP
- CPU: 500 MHz or better
- Memory: 128MB or more
- VGA card with at least 8 MB Memory
- Sound card
- Microsoft DirectX 8.1 or above
- Terrestrial antenna
- Microsoft Media Player 7.0 or above

1.4 Features

- Support DVB protocol
- Digital Terrestrial TV and Radio Program Receiving
- Real time Digital Video Recording and Schedule Recording
- Time-shifting
- Electronic Program Guide (EPG)
- Multi-Channel Preview (FTA Channels Only)
- Auto Scan
- Viewing and Recording Different Channels simultaneously in the same transponder
- MPEG-II Software Decoding
- Software Upgradeable
- Still Frame Capture
- Favorite List
- Teletext

1.5 Specifications

- Tuner
  Input Terminal: 75 Ohm
  Receiving frequency: 51~858 MHz tuning range
  Support MCPC and SCPC

- COFDM & FEC
  2K or 8K FFT Size
  Punctured Codes: 1/2, 2/3, 3/4, 4/5, 5/6 and 7/8
  Bandwidth: 6, 7 or 8 MHz
  Reed-Solomon Decoder (204,188)

- PCI Interface
  PCI bus: PCI 2.2 compliant
  Host bus burst rate: 132 MB/S
  Host bus width: 32 bit

- De-multiplexing
  Max No. Section filtering: 32PIDs
  Engine: software
  Descrambler: DVB descrambler

Stream capture: PES & TS
Syntax Error: CRC or Parity

- A/V Format
  Video format: MPEG-II Main Profile& Main Level
  Audio format: MPEG-II Audio layer I & II

- Board Size and Weight
  About 125mm×102mm
  About 340g

CHAPTER 2

Installation Introduction

This chapter tells how to install VisionDTV in hardware and software with the easiest way!!

Sections include：

- Hardware installation
- Software installation

Chapter 2 Installation Introduction

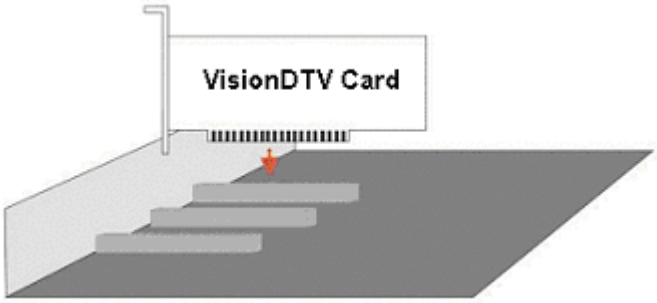
2.1 Hardware Installation

Before You Begin

- Make sure your computer system meet the system requirements
- Make sure the computer and all related equipments are power off
- Please note that VisionDTV can't be inserted with the analog TV tuner card at the same system. Please remove the analog TV tuner card or other PCI card that with Conexant BT878 on board and their drivers before install VisionDTV.

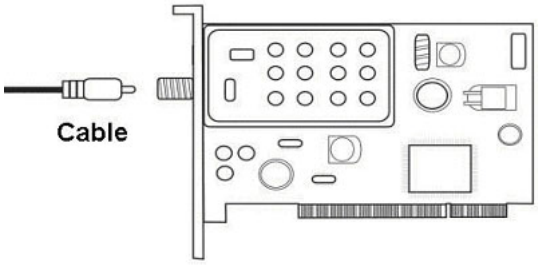
Step1: <u>Insert VisionDTV PCI-Ter Card</u>

- Remove the cover of the slot you intend to use and unscrew the mounting bracket
- Pick up the VisionDTV PCI-Ter Card and position it over the expansion slot you have chosen
- Push the card firmly and evenly, confirm it seated in the slot entirely
  Screw the bracket of the VisionDTV PCI-Ter Card onto the computer chassis



Step2: <u>Cable Connection</u>

- Make sure the cable correctly connected with terrestrial antenna
- Connect the cable to the LNB-in connector and fasten the plug



2.2 Software Installation

Before You Begin

- Make sure that VisionDTV Card is physically installed (For more information please refer to Hardware Installation described in last chapter).
- Turn on your computer

Driver Installation

1. After finishing the “Hardware Installation” and turn on the computer, Windows will find 2 New Hardware – **Multimedia Video Controller** and **Multimedia Control**. Please choose “Cancel” of both pop up windows, we will install the drivers later by the VisionDTV program automatically.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Multimedia Video Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

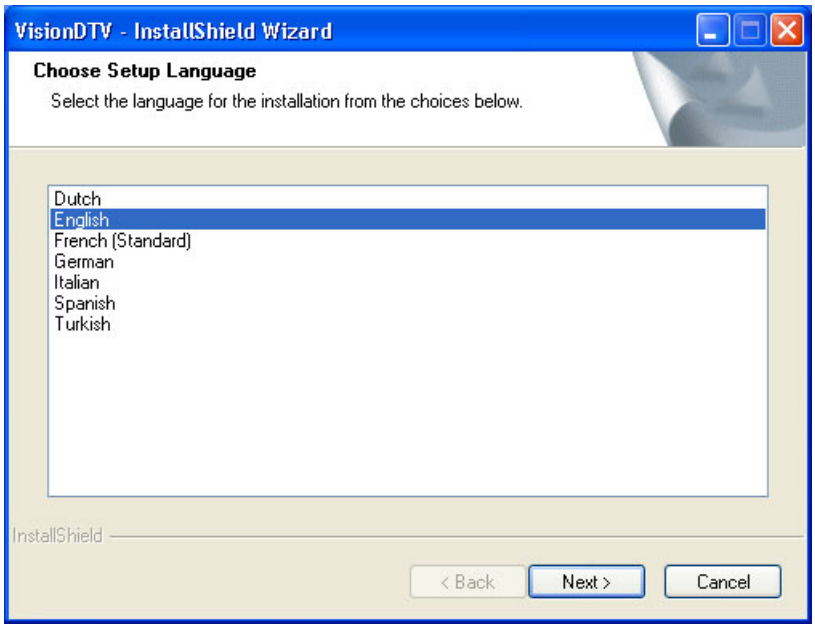
Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Multimedia Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

2. Insert VisionDTV driver CD into your CD-ROM drive, and you should see an “Autorun” pop up window after inserting the CD, please click “Install Software and Driver”.

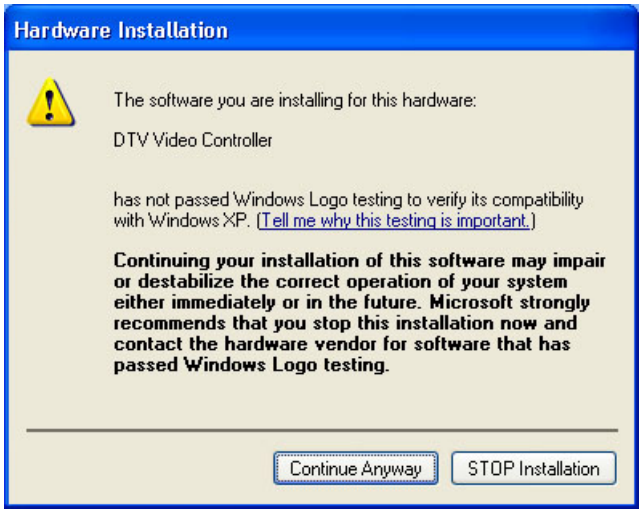
If you don’t see an “Autorun” pop up window, please open the VisionDTV folder in CD-ROM and launch “setup” program manually.

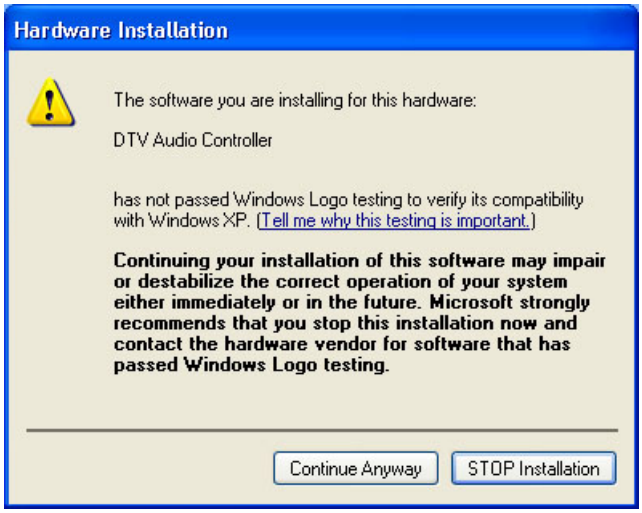
3. After you click “ Install Software and Driver ” or launch “setup” program, the driver will be installed automatically. Please just follow the procedures.

a. Choose proper language you would like to use.



b. Just click “Continue Anyway” if you see both of the following windows.


Hardware Installation
The software you are installing for this hardware:
DTV Video Controller
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

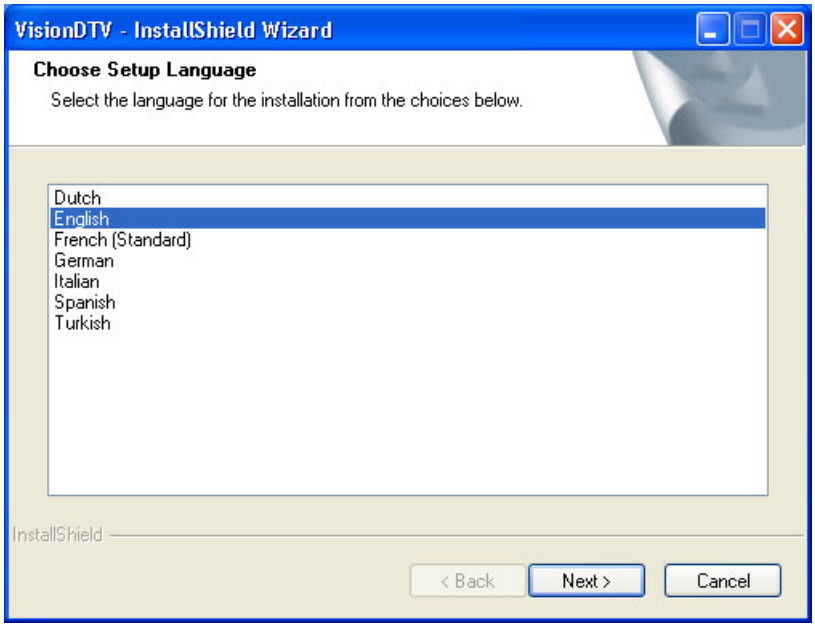

Hardware Installation
The software you are installing for this hardware:
DTV Audio Controller
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

c. Drivers are already installed once you see the following window. Just click ok to restart your computer, and the application software – VisionDTV will be installed automatically after restarting.

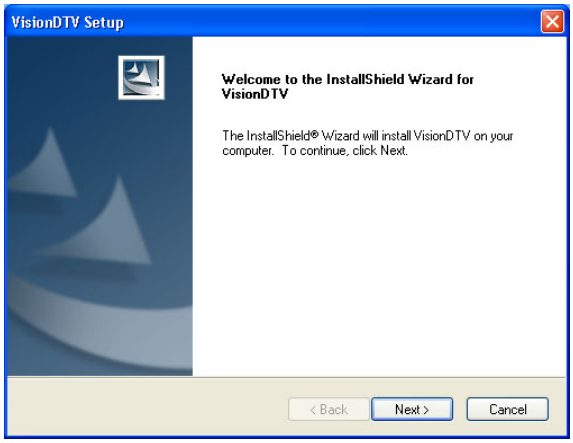
Application Software (VisionDTV) Installation

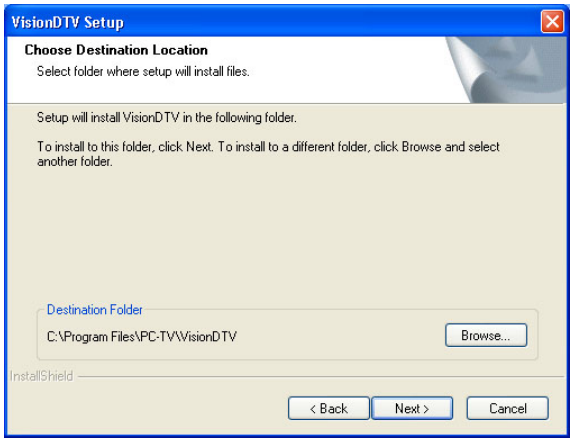
1. The “VisionDTV Install shield Wizard” will be launched automatically. Please follow the procedures.

   a. Choose proper language version you would like to install.

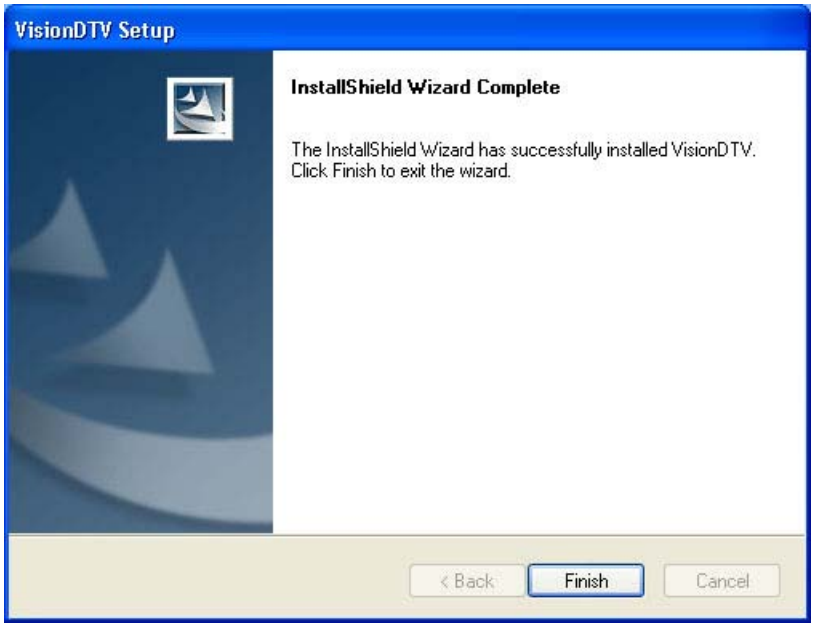


   b. Follow the steps.


VisionDTV Setup
Welcome to the InstallShield Wizard for VisionDTV
The InstallShield® Wizard will install VisionDTV on your computer. To continue, click Next.
< Back
Next >
Cancel


VisionDTV Setup
Choose Destination Location
Select folder where setup will install files.
Setup will install VisionDTV in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\PC-TV\VisionDTV
Browse...
InstallShield
< Back
Next >
Cancel

c. Congratulation!! It's finished when you see the window, and you can launch the VisionDTV by clicking the "VisionDTV" icon on desktop.



2. Enjoy your personal Digital TV now!

CHAPTER 3

System Setup

This chapter describes how to set all the parameters of the system in detail, and lists all the knowledge you need to set up a Digital Terrestrial TV system.

Sections include：

- DTT - Setup
- Program
- Schedule Recording

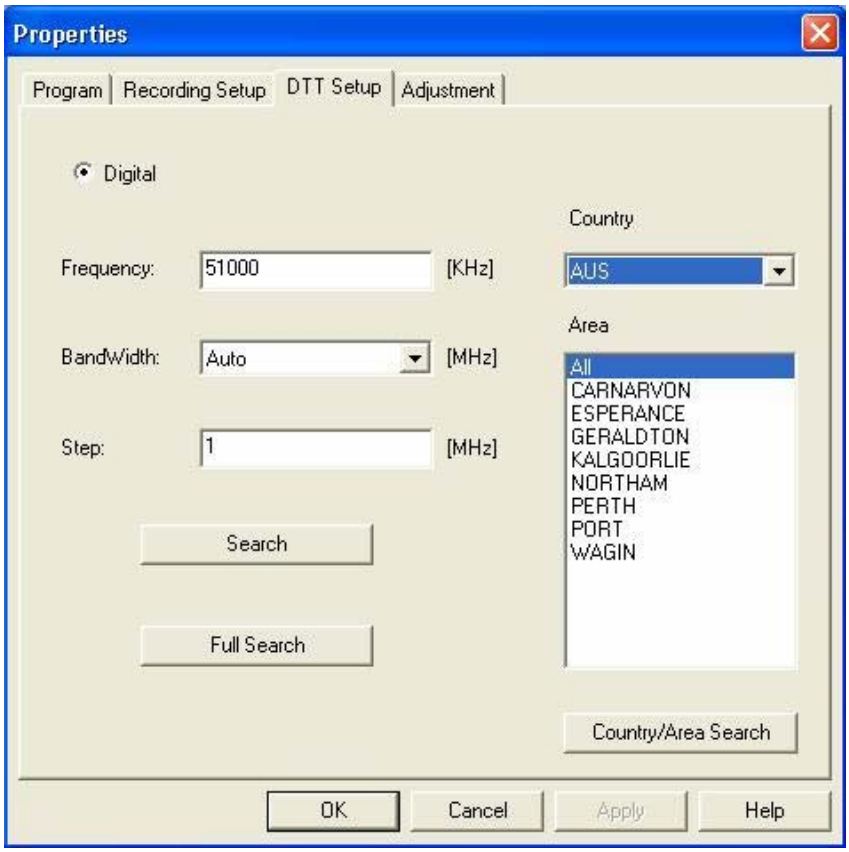
Chapter 3 System Setup

3.1 DTT - Setup
3.2 Program
3.3 Recording Setup

For watching Digital Terrestrial TV, you need to configure several functions. And the necessary sections for system setting will be described in advance and unnecessary parts at the last.

To enter the configuration page please click at the icon on VisionDTV control panel.

3.1 DTT – Setup



Configurations

Automatic Country/Area Search：

Please check the “Country” and “Area”, if your location is on the list then please click “Country/Area Search” to complete the channels setup.

To download the latest Country/Area channel list database, please click on the Control panel and select “Update Terrestrial list”. Please refer to **Chapter 4 for further details.**

Otherwise, please prompt to “Manual Search” or “Manual Full Search”.

Manual Search：

Inputting “**Frequency**” and “**Bandwidth**” information then click “Search” to search the channels. For more information please contact your local terrestrial content provider.

Manual Full Search：

Inputting “**Frequency**”, “Bandwidth” and “**Step**” information then click “**Full Search**” to search the channels. And the system will scan the channels from the frequency you input to 860,000 KHz.

Parameters：

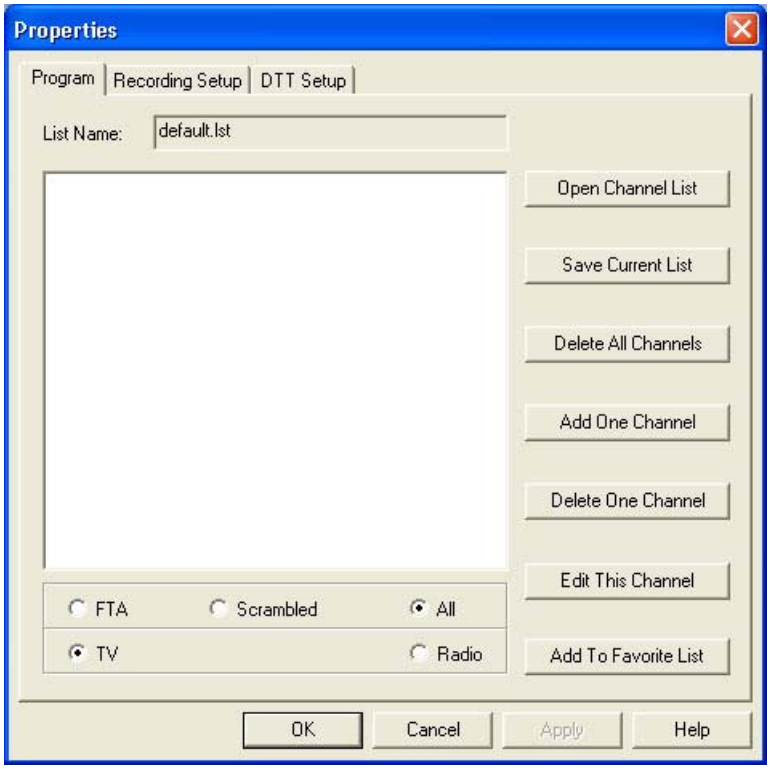
Frequency – The channel's frequency. The available frequency of terrestrial is from 4,000KHz to 800,000KHz.

Bandwidth – The carrier's frequency bandwidth (Or you can just think it as the channel's bandwidth). The available values are 6, 7, 8 MHz and auto. Normally you can just choose auto if you have no idea what the value is. Though it will take more time for searching.

Step – The interval that you execute "**Full Search**". The available value is from 1 to 8 MHz.

KHz – 1000 KHz = 1MHz

3.2 Program



Functions

List Name：The list file you are currently editing or using.

Open Channel List：Open an exiting channels list file from your computer.

Save Current List：Save the channels list at left side to your computer.

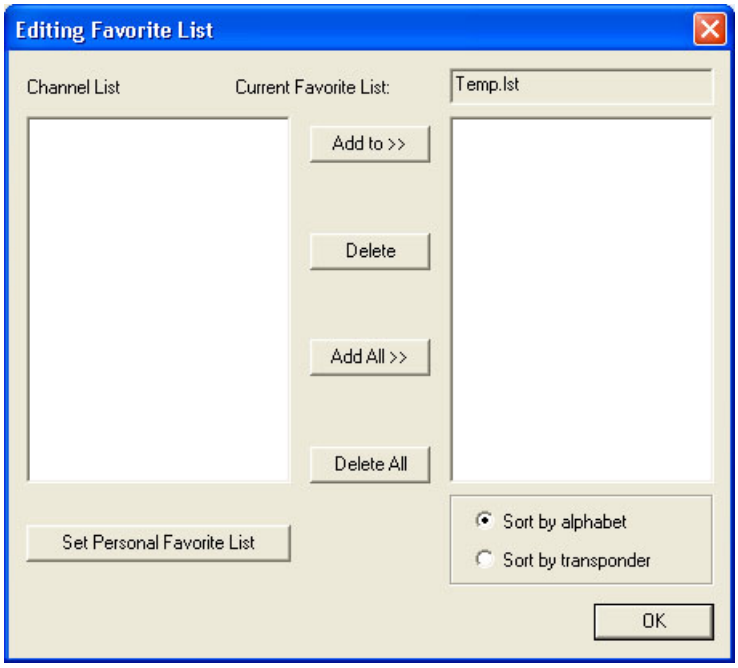
Delete All Channels：Delete the channels list at left side.

Add One Channel：Add channels manually by inputting necessary information. The information includes “Frequency”, “Symbol Rate”, “Polarization H/V”, “VPID”, and “APID”.

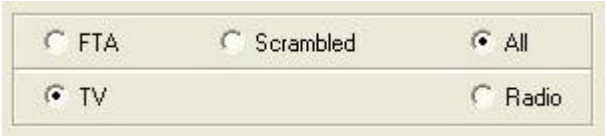
Delete One Channel：Delete the channel on the list. Please note that the setting will be effective only after you save the file and exit the “Properties” panel.

Edit This Channel：Edit the current program on the list.

Add to Favorite List：Add the list in the left side to your favorite list.



Programs Classification



FTA：Only shows the FTA(Free to Air) channels in list.

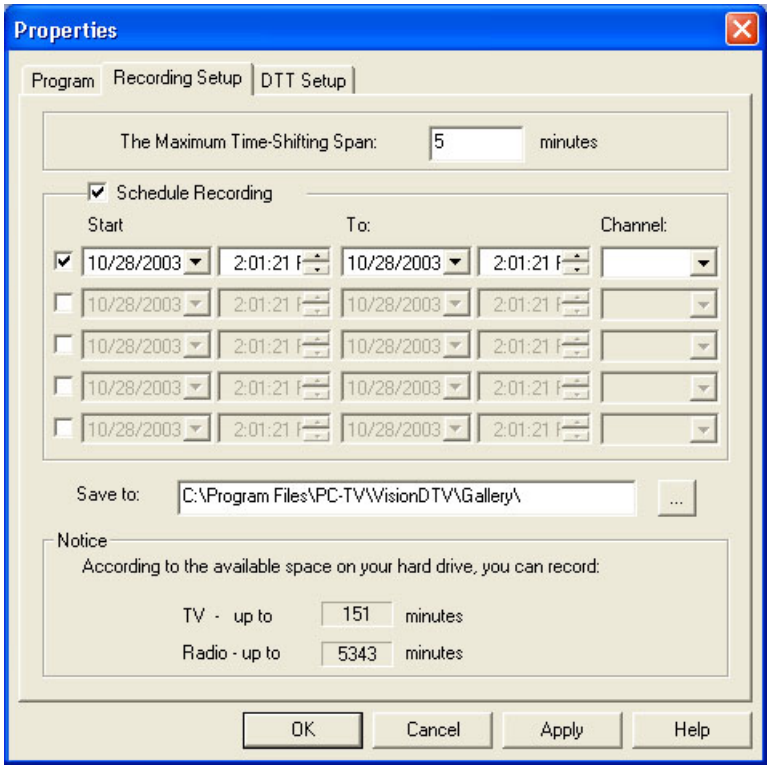
Scrambled：Only shows the Scrambled channels in list.

All：Shows all channels.

TV：Only shows TV channels.

Radio：Only shows Radio channels.

3.3 Recording Setup



The Maximum Time-Shifting Span

How long you would like your Time-Shifting function to proceed with.

Time-Shifting：Record real time program when you need to be away for something and play it right after you come back. System will keep on recording the program when you are watching the recording program until you stop it.

Schedule Recording

Record the DTV programs by scheduling when you are not available.

Step 1.Set the starting time.

Step 2.Set the ending time.

Step 3.Choose the Channel you would like to record.

Note. You will not be able to record multi-programs at the same time.

Save to

Choose the directory or drive where you would like your schedule recording be saved.

Notice

It tells how long you could record your TV or Radio programs. And it depends on the capacity of your hard disk.

CHAPTER 4

VisionDTV Application Program

VisionDTV Application Program is a powerful software for you to watch DTV in your personal computer. It provides all the functions you need to enjoy “High Resolution” video and “5.1channel” audio. You can’t miss it!!

Sections include：

- Control Panel
- Functions
- Left Click Menu
- Keyboard Shortcuts

Chapter 4 VisionDTV Application Program

4.1 Control Panel

The icons of control bar and control panel				
Icon	***Function***		**Icon**	**Function**
	Hyper Link for some useful websites			Play Video
	On-Line Help			Stop Video
	Display favorite list			Record Video
	Snap shoot			Pause
	Properties			Fast Rewind
	Open recording file list			Fast Forward
	Electronic Program Guide			Time-Shifting Start and Pause
	Teletext			Change Channel (Up)
	Multi-Channel Preview			Channel Down (Down)
	Signal Strength			Signal Quality
	About			Adjust Volume
	Sound on			Sound off(left)

4.2 Functions

Clock

The clock will automatically be set to the host computer's time.

information on websites and channel information live update

Click on this button to surf informative websites.

A hyperlink to "Update Terrestrial list" is for updating the Terrestrial Country/Area channel list database which is referred to while channel scanning.

Channel Title Displaying

The current channel name will be displayed on the control panel in the language assigned by the channel provider.

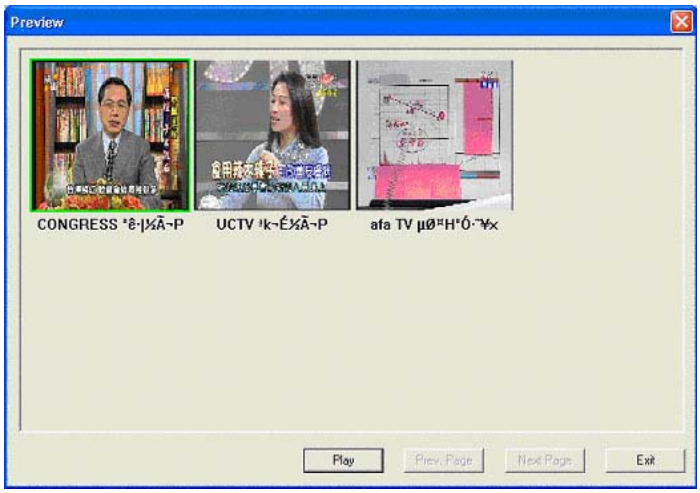
Turning the sound on and off

Turning the sound of right or left channel off, just left click at the icon , and you will see the icon changes like this " ".

Video Recording

You could record the video just by clicking at . Or you could arrange schedule recording by configure at the "Recording Setup" page in property menu - .

Multi-Channel Preview



Click at on the control panel to preview multi-channel at the same time.

To watch the program you want just choose it then click at "Play".

Note: You can only preview the FTA channels from the same transponder.

Electronic Program Guide (EPG)

Click at on the control panel to see the electronic program guide provided by the content provider. From here you can get more information about the broadcasting programs.

Multi-Language

From here you can choose the language of the program.

1. Please click “Properties - ” → “Program” and choose the program name on the list.
2. Please click at “Edit”, then ”Set your program” will pop up.
3. Please find the “APID [Dec]” to select another default of APID.

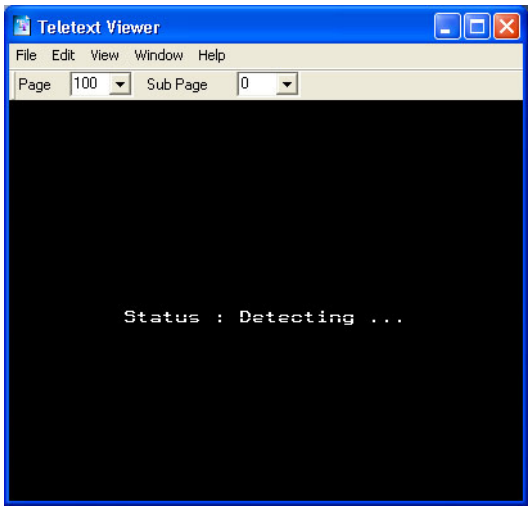
Note: Please check your content provider to see if the programs have multi-language.

Snap Shot

Click at to capture the still frame you are currently watching.

Teletext

The application “Teletext” is a simple teletext browser. To start this function, please click at on the control panel. It only works when VisionDTV is launching.



4.3 Right Click Menu

Left click your mouse over VisionDTV UI and you will see a pop up menu. Here are the brief introduction.

Play Pause ✔ Stop Record Rewind Fast Forward Time Shifting	Play：Play Video Pause：Pause the video you are currently watching Stop：Stop the video you are currently watching Record：Record the video program you are currently watching Rewind：Rewind when you are watching recording video Fast Forward：Fast forward when you are watching recording video Time Shifting：Start or pause the “Time Shifting” function
Channel Up Channel Down Last Channel EPG Preview Capture Teletext Mute	Channel Up：Change to previous channel Channel Down：Change to next channel Last Channel：Change to the last channel EPG：Show EPG window Preview：Multi-channel preview (only for FTA channels) Capture：Snap shoot the still frame Teletext：Show teletext window. Mute：Turn the sound off
Properties Record List Favorite List ✔ Control Panel	Properties：Show properties window Record List：Open record List Favorite List：Open favorite List Control Panel：Show control panel
User Definition ✔ 4 : 3 16 : 9	User Definition：Change the aspect rate of screen yourself 4 : 3：Set screen aspect rate at 4:3 16 : 9：Set screen aspect rate at 16:9
Top Most	Top Most：Place VisionDTV screen always on the top
About	About：Display the version information of VisionDTV
Exit	Exit：Turn VisionDTV program off

4.4 Keyboard Shortcuts

Function	Shortcut
Play	Enter
Stop	End
Pause	Space bar
Full Screen	Z
Properties windows	O
Record	Home
Stop Record	End
Program list	L
Time Shifting	T
Channel up	Page up
Channel down	Page down
Volume up	Shift + Arrow up
Volume down	Shift + Arrow down
Help	F1
Key cancel	Esc
Key enter	Enter
VisionDTV Exit	X
Mute	M
Right Speaker	Ctrl + R
Left Speaker	Ctrl + L
Favorite List	V
EPG	E
Preview	K
Fast Forward	F
Fast Backward	R

CHAPTER 5

Trouble Shooting

From this chapter, VisionPlus collects all the problems you usually will encounter. So that you could resolve the problems quickly without no efforts.

Chapter 5 Trouble Shooting

1. **Windows cannot find VisionDTV PCI-Ter board.**
   - ◆ Check whether VisionDTV PCI-Ter Card was inserted correctly in the PCI slot.
   - ◆ Re-start the operation system.
   - ◆ Run "Add/Remove Hardware Device" from Windows "Control Panel"
   - ◆ Re-insert VisionDTV PCI-Ter Card into another PCI slot of the PC

2. **Windows cannot find the driver of VisionDTV PCI-Ter board**
   Please shut down the computer and re-insert the VisionDTV board. Then install the driver again. For more installation information please refer to "Chapter2–Installation Introduction."

3. **Cannot lock any program channel when auto scan.**
   - ◆ Check the cable connection between VisionDTV PCI-Ter Board and the dish. Please note that the cable should be connected to the connector of the card.
   - ◆ Please re-insert the VisionDTV PCI-Ter Board to another PCI slot.

4. **When the dialog "Unlock!" pops up.**
   Check the cable connection between VisionDTV PCI-Ter Board and the dish. Please note that the cable should be connected to the connector of the card.

5. **When error dialog box pops up or black screen appears**
   - ◆ Might be resulted from poor signal quality, VisionDTV doesn't receive enough data of program or does receive wrong data. Please check the connection between VisionDTV PCI-Ter Board and the cable.
   - ◆ Please check the driver of VGA card or on board VGA chip.
   - ◆ Please make sure your operation system is Microsoft Windows 98SE/ME/2000/XP.
   - ◆ Please install Microsoft DirectX8.1 and Media Player 7.0 or higher version.

6. **Video is playing but Audio is failed**
   Please check the sound card or the volume setting.

7. **Failed to play program.**
   - ◆ Make sure you have installed Sound Card Driver and the Sound Card is working. Please note that no matter if you want to listen to the audio or not, the sound card and its driver must be installed.

◆ Please check the signal quantity and strength.

8. **When playing the program, the audio is ok, but the screen is blank! Why?**
   Please make sure your VGA driver and Microsoft DirectX 8.1 were installed correctly.

9. **Can I view and record different channels simultaneously ?**
   Yes, but both of them must at the same transponder.